

ICC Info Control

Display and Remote Control for BÜTTNER ELEKTRONIK
Inverter/Charger Combination
MT ICC 1600 SI-N/60A and MT ICC 3000 SI-N/120A

Operation Manual

Please read all the following notes carefully before you start operating your new device or starting the installation. Keep this instruction manual and all other included documentation in a safe place for later consultations.

1 Introduction

ICC INFO CONTROL for control of Inverter/Charger Combination:
- MT ICC 1600 SI-N/60 A
- MT ICC 3000 SI-N/120 A

The ICC INFO CONTROL has an advanced graphical display and an intuitive user interface. This allows many available parameters of the connected inverter / charger combination (ICC) to be read out.

ON/OFF is also controlled by this remote control.

Communication between the ICC INFO CONTROL and Inverter/Charger Combination (ICC) is done using the robust industrial link protocol that supports cable lengths up to 50 m. This connection accepts CAT5 Ethernet patch cords (straight wired)

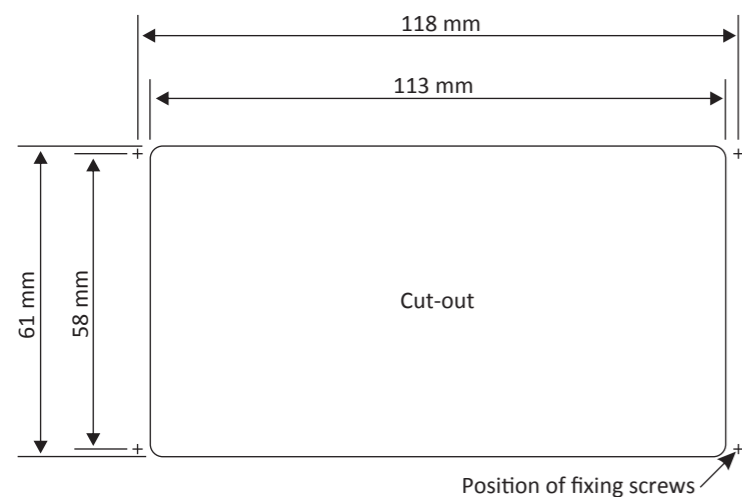
2 Installation

CAUTION Never connect the ICC INFO CONTROL directly to other Networks or devices not intended for use!

WARNING Before removing the cover of the inverter/charger combination: First disconnect the battery and disconnect all power plugs. Then wait at least 1 minute.

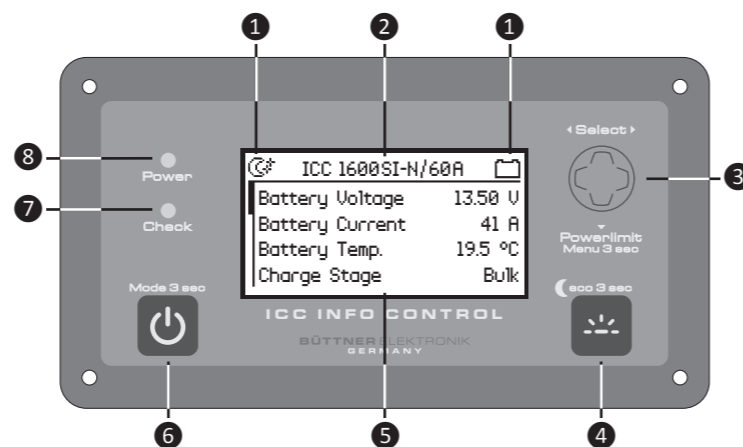
The ICC INFO CONTROL must be mounted in a dry place where it is not exposed to direct sunlight. The ambient air temperature at this location should be between -10 °C and + 50 °C (humidity <95 % non-condensing). Never exert too much pressure on the area of the display window, as this can lead to problems and permanently damage the display.

The following dimensions apply to the mounting cut-out:



Follow the installation instructions for your inverter / charger combination to properly connect the ICC INFO CONTROL. The ICC INFO CONTROL must be connected in the terminal compartment of the inverter / charger combination with the socket for the remote control.

3 ICC INFO CONTROL Display and Remote Control



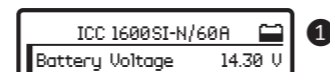
1 Display of operation mode:

Inverter mode:

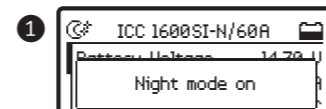
- If the inverter is operating in automatic mode, no symbol appears in the upper left corner of the display.
- If the mode button 6 is pressed for more than 3 seconds, the ICC is in continuous operation. This is indicated with the ∞ symbol in the upper left corner.

Grid mode:

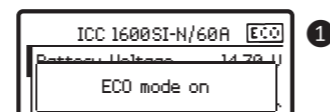
- If the inverter / charger combination (ICC) operates in normal mode, no icon will appear in the upper left corner of the display. In the upper right corner of the display, the battery charge status will be displayed.



- If the mode button 6 is pressed for more than 3 seconds, the night mode is activated. This is indicated by the moon symbol in the upper left corner.



- If the ECO button 4 is pressed for more than 3 seconds, this function is activated and "ECO" appears on the top right of the display.



2 Display device type:

Automatically indicates which inverter / charger combination (ICC) is connected.

- 3 Rotary / Pushbutton: Select the list view or change numeric values.
- 4 Backlight button / ECO mode (on AC power): Short press activates or deactivates the backlight of the LCD display. Pressing the button for longer than 3 seconds activates or deactivates the ECO mode.

5 LCD display:

Under normal operating conditions, this field displays all available parameters and the corresponding values. If the display list contains more than four lines, you can use the rotary control knob 3 to scroll through the list.

6 On / Off switch / (operating mode 3 seconds):

A short press of the button switches the ICC on or off in the respective operating mode. With applied mains voltage, a keystroke activates or deactivates the night mode for > 3 seconds. Without external mains voltage, the inverter is active. By pressing the button for more than 3 seconds

7 CHECK LED:

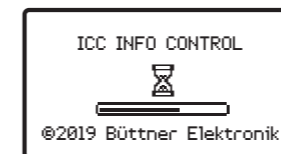
Flashes red when a warning has occurred. A corresponding note is shown in the display.

8 Power LED:

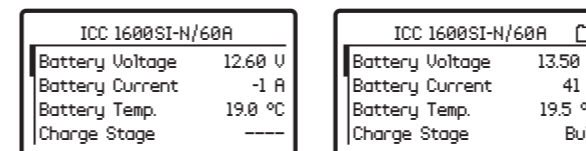
Illuminated green when the ICC and remote control are switched on. In inverter mode, the LED flashes as long as the automatic mode is activated.

4 General functional description

When switching on the ICC with the On / Off button or through connecting to the external mains voltage, the ICC is switched on and also the display is started. The green power LED is activated and the following home screen will be displayed for a few seconds:



Then follows the normal operation display mode. Available parameters are displayed:



The list of available parameters can be scrolled through by turning the rotary control knob 3.

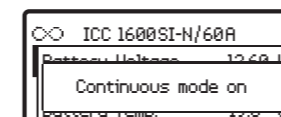
- In low light conditions, the 4 button can be pressed to activate the backlight of the display. Use the same button to turn off the backlight.

If the ICC shuts down automatically after being triggered in fault mode, the check LED 7 will start flashing and the display will show the corresponding alarm. This message disappears automatically when the error has been corrected. To turn off the ICC or put it in another operating mode, you can press the button 6 on / off switch once. This will turn the ICC on or off. A long press on the On / Off button (> 3 seconds) changes the operating mode. Depending on the current operating status, the respective options are adapted.

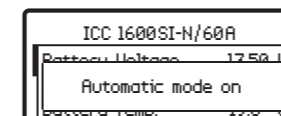
Note: If you don't use your RV for a longer period of time, we recommend disabling the ICC completely, for example with the help of the remote control input.

5 Inverter mode

If the ICC is operated without an external power supply, then the device works as a pure inverter. Here the maximum specified device performance can be called up. By briefly pressing the On / Off button, the inverter is started in automatic mode. If the inverter is to be put into continuous operation mode, the On / Off button for for more than 3 seconds. The operating mode then changes to continuous operation and is additionally indicated by an ∞ symbol in the display.



Repeated push on Mode button > 3 seconds changes back to automatic mode.

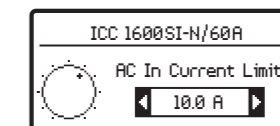


Short push on On / Off -button switches the unit completely off.

6 Combined operation / Mode with external mains supply from grid

6.1 AC mains input current limitation

If the ICC is operated with external mains supply, then the device operates in combi mode. Briefly pressing the rotary control knob 3 activates the setting of the mains current limitation. A change of the mains input current is only possible if the current selector switch on the device is in the middle position "Maximum = 16 A". Then, with the rotary control knob 3, the permissible input current between 1.0 and 16.0A can be set in steps of 0.5 A.



If the current selection switch on the device is set to 3 A or 6 A, no change of the current value is possible with the rotary control! A limitation of the maximum permissible input current is required if a limitation is specified at the camp site, however the release of the fuse should be prevented. By briefly pressing the rotary control, you end the adjustment process.

Note: If the input current (mains) is limited at the position and the ICC is set to this value, the ICC will compensate for this if a higher power is called up. Please note that the energy required for this period is taken from the board battery. To prevent from excessive discharge, limit the operation time.

6.2 Night mode

In nocturnal charging mode, the maximum charging power is reduced by 50 % and the fans are deactivated for noiseless operation. The charger automatically quits the night mode after 10 hours and then switches back to full charging power with fan operation. By holding the operating mode button for more than 3 seconds, the night mode can also be deactivated manually at any time.

6.3 ECO mode

In ECO mode, the battery charging and the inverter function is completely deactivated. The power electronics is in ECO mode and only the mains transfer relais is kept activated to pass external mains through to the existing sockets. This mode of operation ends automatically after 10 hours and switches to normal operation. By holding the ECO mode button for more than 3 seconds, this operation mode can also be deactivated manually at any time.

7 Setup ICC Info Control display

To enter the setup menu of the display, the rotary control knob knob must be pushed for more than 3 seconds. Then the selection menu for entering the setup menu for the remote control appears.



Select "Setup remote control" with the rotary knob and confirm by pushing:



In the setup for the display, key tones, alarm tones, backlight brightness, LCD contrast and also the language of the display can be adjusted. The adjustment in each menu will be terminated by a short press on the rotary knob. If no change is made for 90 seconds, the setup ends and the display returns to the normal operating mode.

8 Technical specifications

Parameter	ICC INFO CONTROL
Data Cable	Patch cable, CAT5-Ethernet, (straight wired) RJ45(8)-RJ45(8) industrial link protocol
Communication	Industrial link protocol
Nominal operating voltage	12 V or 24 V
Weight	140 g
Protection	IP30
Dimension (LxWxD)	130 x 70 x 36 mm
Installation depth	30 mm
Cut-out (L x W)	113 x 61 mm
Consumption (Illuminated)	12 mA (47 mA)
Storage temp.	-20 °C to +65 °C
Operating temp.	-10 °C to +50 °C
Housing material	ABS

Note: Above specifications can change without notice.